

CLAIMS

What is claimed is:

- 1 1. A system comprising:
2 A processing unit;
3 A memory device;
4 A network interconnection;
5 A first unit to process an inquiry for data from a peer node, transcode the data
6 before transmitting the data to the peer node, wherein the transcoding
7 includes converting the data into a format that can be processed by the
8 peer node, and transmitting the data to the peer node in a transport
9 specification as requested by the peer node.
- 1 2. The system of claim 1, wherein the transport specification is specified by an
2 application at the peer node.
- 1 3. The system of claim 1, wherein the inquiry includes a user-specified query
2 generated at the peer node.
- 1 4. The system of claim 3, wherein the user-specified query includes a reference
2 to a content of the requested data, and the system includes a content specific query
3 handler to locate the requested data.

1 19. The method of claim 14, wherein the data is transcoded into a format
2 requested by the peer service layer of the second peer node.

1 20. The method of claim 14, wherein the second node includes a programmatic
2 access to the peer-to-peer service layer.

1 21. The method of claim 14, wherein the data includes multimedia data.

1 22. The method of claim 14, wherein the second node is a wireless device and an
2 application support handler at the first node adjust delivery of the data to a mobile
3 location of the second node.

1 23. The method of claim 14, wherein a peer service layer is included at the second
2 node to provide system-level service below an operating system of the second node.

1 24. The method of claim 14, further including the first node receiving the data
2 from a third node.

1 25. The method of claim 24, wherein the third node transcodes the data prior to
2 transmitting the data to the first node.

1 26. The method of claim 14, wherein a peer service layer at the second peer node
2 specifies the transport specification.

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1 27. The machine readable medium of claim 26, wherein a daemon at the first node
2 includes an application interface module, a media transcoding module, a cost evaluation
3 module, and a daemon to daemon communication module.

1 28. The method of claim 14, further including the second node transcoding the
2 data after receiving the data from the first node, wherein the transcoding includes
3 converting the data into a format that can be processed by the second peer node.

1 29. An article comprising a computer-readable medium which stores computer-
2 executable instructions, the instructions causing a first peer node to:
3 A first peer node receiving an inquiry for data from a second peer node;
4 The first peer node transcoding the data before transmitting the data to the
5 second peer node, wherein the transcoding includes converting the data
6 into a format that can be processed by the second peer node and;
7 transmitting the data to the second peer node in a transport specification as
8 requested by the second peer node.

1 30. The article of claim 29, wherein the transport specification is specified by an
2 application at the second node.

1 31. The article of claim 29, wherein the inquiry includes a user-specified query
2 generated at the second node.

1 32. The article of claim 31, wherein the user-specified query includes a reference to
2 a content of the requested data, and the first peer node includes a content specific query
3 handler to locate the requested data.

1 33. The article of claim 29, wherein the second and first peer nodes include tables
2 mapping user-defined names or metadata references to Globally Unique Identifiers
3 identifying data stored within a network of peer-to-peer nodes.

1 34. The article of claim 29, wherein the application at the second peer node
2 specifies the transport specification to a peer service layer at the second peer node.

1 35. The article of claim 29, wherein the data is transcoded into a format requested
2 by the peer service layer of the second peer node.

1 36. The article of claim 29, wherein the second node includes programmatic access
2 to the peer-to-peer service layer.

1 37. The article of claim 29, wherein the data includes multimedia data.

1 38. The article of claim 29, wherein the second node is a wireless device and an
2 application support handler at the first node adjust delivery of the data to a mobile
3 location of the second node.

1 39. The article of claim 29, wherein the instructions further cause the first node to
2 receive the data from a third node, prior to transmitting the data to a second node.

1 40. The article of claim 39, wherein a peer service layer at the second peer node
2 specifies the transport specification.

1 41. The article of claim 41, wherein the data is transcoded in response to a status of
2 a network connection between the first peer node and the second peer node.